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SEQUENCE LISTING

<110> Podolsky, Daniel K.

<120> INTESTINAL TREFOIL PROTEINS

<130> 00786-432001

<140> US 09/313,434

<141> 1999-05-17

<150> US 08/631,469

<151> 1996-04-12

<150> US 08/191,352

<151> 1994-02-02

<150> US 08/037,741

<151> 1993-03-25

<150> US 07/837,192

<151> 1992-02-13

<150> US 07/655,965

<151> 1991-02-14

<160> 19

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 431

<212> DNA

<213> Rattus ITF

<220>

<221> CDS

<222> (18)...(260)

<400> 1

gaagtttgcg tgctgcc atg gag acc aga gcc ttc tgg ata acc ctg ctg	50
Met Glu Thr Arg Ala Phe Trp Ile Thr Leu Leu	
1 5 10	

ctg gtc ctg gtt gct ggg tcc tcc tgc aaa gcc cag gaa ttt gtt ggc	98
Leu Val Leu Val Ala Gly Ser Ser Cys Lys Ala Gln Glu Phe Val Gly	
15 20 25	

cta tct cca agc caa tgt atg gcg cca aca aat gtc agg gtg gac tgt	146
Leu Ser Pro Ser Gln Cys Met Ala Pro Thr Asn Val Arg Val Asp Cys	
30 35 40	

aac tac ccc act gtc aca tca gag cag tgt aac aac cgt ggt tgc tgt	194
Asn Tyr Pro Thr Val Thr Ser Glu Gln Cys Asn Asn Arg Gly Cys Cys	
45 50 55	

ttt gac tcc agc atc cca aat gtg ccc tgg tgc ttc aaa cct ctg caa	242
Phe Asp Ser Ser Ile Pro Asn Val Pro Trp Cys Phe Lys Pro Leu Gln	
60 65 70 75	

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TECH CENTER 1600/2900

gag aca gaa tgt aca ttt tgaagctgtc caggctccag gaagggagct 290
Glu Thr Glu Cys Thr Phe
80

ccacaccctg gactcttgc gatggtagtg gcccagggtg acactcacc ctgatctgct 350
ccctcgcgcc ggccaatata ggagctggga gtccagaaga ataaagacct tacagtcagc 410
acaaggctgt tctaattgcg g 431

<210> 2
<211> 81
<212> PRT
<213> Rattus ITF

<400> 2
Met Glu Thr Arg Ala Phe Trp Ile Thr Leu Leu Leu Val Leu Val Ala
1 5 10 15
Gly Ser Ser Cys Lys Ala Gln Glu Phe Val Gly Leu Ser Pro Ser Gln
20 25 30
Cys Met Ala Pro Thr Asn Val Arg Val Asp Cys Asn Tyr Pro Thr Val
35 40 45
Thr Ser Glu Gln Cys Asn Asn Arg Gly Cys Cys Phe Asp Ser Ser Ile
50 55 60
Pro Asn Val Pro Trp Cys Phe Lys Pro Leu Gln Glu Thr Glu Cys Thr
65 70 75 80
Phe

<210> 3
<211> 403
<212> DNA
<213> Homo sapiens ITF

<220>
<221> CDS
<222> (2)...(223)

<400> 3
g atg ctg ggg ctg gtc ctg gcc ttg ctg tcc tcc agc tct gct gag gag 49
Met Leu Gly Leu Val Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu
1 5 10 15

tac gtg ggc ctg tct gca aac cag tgt gcc gtg ccg gcc aag gac agg 97
Tyr Val Gly Leu Ser Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg
20 25 30

gtg gac tgc ggc tac ccc cat gtc acc ccc aag gag tgc aac aac cgg 145
Val Asp Cys Gly Tyr Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg
35 40 45

ggc tgc tgc ttt gac tcc agg atc cct gga gtg cct tgg tgt ttc aag 193
Gly Cys Cys Phe Asp Ser Arg Ile Pro Gly Val Pro Trp Cys Phe Lys
50 55 60

ccc ctg act agg aag aca gaa tgc acc ttc tgaggcacct ccagctgccc 243
Pro Leu Thr Arg Lys Thr Glu Cys Thr Phe
65 70

ctgggatgca ggctgagcac ccttgcccgg ctgtgattgc tgccaggcac tgttcatctc 303
agtttttctg tccctttgct cccggcaagc tttctgctga aagttcatat ctggagcctg 363
atgtcttaac gaataaaggt cccatgctcc acccgaaaaa 403

<210> 4
 <211> 74
 <212> PRT
 <213> Homo sapiens ITF

<400> 4
 Met Leu Gly Leu Val Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu
 1 5 10 15
 Tyr Val Gly Leu Ser Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg
 20 25 30
 Val Asp Cys Gly Tyr Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg
 35 40 45
 Gly Cys Cys Phe Asp Ser Arg Ile Pro Gly Val Pro Trp Cys Phe Lys
 50 55 60
 Pro Leu Thr Arg Lys Thr Glu Cys Thr Phe
 65 70

<210> 5
 <211> 10
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetically generated primer

<400> 5
 gggcggccgc 10

<210> 6
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetically generated primer

<400> 6
 gtacattctg tctcttgag a 21

<210> 7
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetically generated primer

<400> 7
 taaccctgct gctgctggc ctgg 24

<210> 8
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetically generated primer

<400> 8
 gtttgctgc tgccatggag a 21

<210> 9
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetically generated primer

<400> 9
 ccgcaattag aacagccttg t

21

<210> 10
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetically generated peptide

<400> 10
 Glu Ala Gln Thr Glu Thr Cys Thr Val Ala Pro Arg Glu Arg Gln Asn
 1 5 10 15
 Cys Gly Phe Pro Gly Val Thr Pro Ser Gln Cys Ala Asn Lys Gly Cys
 20 25 30
 Cys Phe Asp Asp Thr Val Arg Gly Val Pro Trp Cys Phe Tyr Pro Asn
 35 40 45
 Thr Ile Asp Val Pro Pro Glu Glu Glu Cys Glu Phe
 50 55 60

<210> 11
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetically generated peptide

<400> 11
 Glu Lys Pro Ala Ala Cys Arg Cys Ser Arg Gln Asp Pro Lys Asn Arg
 1 5 10 15
 Val Asn Cys Gly Phe Pro Gly Ile Thr Ser Asp Gln Cys Phe Thr Ser
 20 25 30
 Gly Cys Cys Phe Asp Ser Gln Val Pro Gly Val Pro Trp Cys Phe Lys
 35 40 45
 Pro Leu Pro Ala Gln Glu Ser Glu Glu Cys Val Met Glu Val
 50 55 60

<210> 12
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetically generated primer

<400> 12
 attgcc

6

<210> 13
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Synthetically generated primer

<400> 13

tatggc

6

<210> 14

<211> 540

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (41)...(292)

<400> 14

atccctgact	cggggtcgcc	tttggagcag	agaggaggca	atg	gcc	acc	atg	gag	55
				Met	Ala	Thr	Met	Glu	
				1				5	

aac	aag	gtg	atc	tgc	gcc	ctg	gtc	ctg	gtg	tcc	atg	ctg	gcc	ctc	ggc	103
Asn	Lys	Val	Ile	Cys	Ala	Leu	Val	Leu	Val	Ser	Met	Leu	Ala	Leu	Gly	
				10					15					20		

acc	ctg	gcc	gag	gcc	cag	aca	gag	acg	tgt	aca	gtg	gcc	ccc	cgt	gaa	151
Thr	Leu	Ala	Glu	Ala	Gln	Thr	Glu	Thr	Cys	Thr	Val	Ala	Pro	Arg	Glu	
			25					30					35			

aga	cag	aat	tgt	ggt	ttt	cct	ggt	gtc	acg	ccc	tcc	cag	tgt	gca	aat	199
Arg	Gln	Asn	Cys	Gly	Phe	Pro	Gly	Val	Thr	Pro	Ser	Gln	Cys	Ala	Asn	
		40					45					50				

aag	ggc	tgc	tgt	ttc	gac	gac	acc	ggt	cgt	ggg	gtc	ccc	tgg	tgc	ttc	247
Lys	Gly	Cys	Cys	Phe	Asp	Asp	Thr	Val	Arg	Gly	Val	Pro	Trp	Cys	Phe	
	55					60					65					

tat	cct	aat	acc	atc	gac	gtc	cct	cca	gaa	gag	gag	tgt	gaa	ttt		292
Tyr	Pro	Asn	Thr	Ile	Asp	Val	Pro	Pro	Glu	Glu	Glu	Cys	Glu	Phe		
	70				75					80						

tagacacttc	tgcagggatc	tgccctgcac	ctgacggggg	gccgtcccca	gcacgggtgat	352
tagtcccaga	gctcgggtgc	cacctccacc	ggacacctca	gacacgcttc	tgcagctgtg	412
cctcgggtca	caacacagat	tgactgctct	gactttgact	actcaaaatt	ggcctaaaaa	472
ttaaaagaga	tcgatattaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	532
aaaaaaaaaa						540

<210> 15

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 15

Glu	Lys	Pro	Ala	Ala	Cys	Arg	Cys	Ser	Arg	Gln	Asp	Pro	Lys	Asn	Arg	
1				5					10					15		
Val	Asn	Cys	Gly	Phe	Pro	Gly	Ile	Thr	Ser	Asp	Gln	Cys	Phe	Thr	Ser	
			20				25				30					
Gly	Cys	Cys	Phe	Asp	Ser	Gln	Val	Pro	Gly	Val	Pro	Trp	Cys	Phe	Lys	
	35					40					45					

Pro Leu Pro Ala Gln Glu Ser Glu Glu Cys Val Met Gln Val Ser Ala
 50 55 60
 Arg Lys Asn Cys Gly Tyr Pro Gly Ile Ser Pro Glu Asp Cys Ala Ala
 65 70 75 80
 Arg Asn Cys Cys Phe Ser Asp Thr Ile Pro Glu Val Pro Trp Cys Phe
 85 90 95
 Phe Pro Met Ser Val Glu Asp Cys His Tyr
 100 105

<210> 16
 <211> 57
 <212> PRT
 <213> Rattus ITF

<400> 16
 Gln Glu Phe Val Gly Leu Ser Pro Ser Gln Cys Met Ala Pro Thr Asn
 1 5 10 15
 Val Arg Val Asp Cys Asn Tyr Pro Thr Val Thr Ser Glu Gln Cys Asn
 20 25 30
 Asn Arg Gly Cys Cys Phe Asp Ser Ile Pro Asn Tyr Pro Trp Cys
 35 40 45
 Phe Lys Pro Leu Gln Glu Cys Thr Phe
 50 55

<210> 17
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 17
 Met Ala Thr Met Glu Asn Lys Val Ile Cys Ala Leu Val Leu Val Ser
 1 5 10 15
 Met Leu Ala Leu Gly Thr Leu Ala Glu Ala Gln Thr Glu Thr Cys Thr
 20 25 30
 Val Ala Pro Arg Glu Arg Gln Asn Cys Gly Phe Pro Gly Val Thr Pro
 35 40 45
 Ser Gln Cys Ala Asn Lys Gly Cys Cys Phe Asp Asp Thr Val Arg Gly
 50 55 60
 Val Pro Trp Cys Phe Tyr Pro Asn Thr Ile Asp Val Pro Pro Glu Glu
 65 70 75 80
 Glu Cys Glu Phe

<210> 18
 <211> 105
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)...(318)

<400> 18
 gag aaa ccc tcc ccc tgc cag tgc tcc agg ctg agc ccc cat aac agg
 Glu Lys Pro Ser Pro Cys Gln Cys Ser Arg Leu Ser Pro His Asn Arg
 1 5 10 15
 acg aac tgc ggc ttc cct gga atc acc agt gac cag tgt ttt gac aat
 Thr Asn Cys Gly Phe Pro Gly Ile Thr Ser Asp Gln Cys Phe Asp Asn
 20 25 30

48

96

gga tgc tgt ttc gac tcc agt gtc act ggg gtc ccc tgg tgt ttc cac 144
 Gly Cys Cys Phe Asp Ser Ser Val Thr Gly Val Pro Trp Cys Phe His
 35 40 45

ccc ctc cca aag caa gag tcg gat cag tgc gtc atg gag gtc tca gac 192
 Pro Leu Pro Lys Gln Glu Ser Asp Gln Cys Val Met Glu Val Ser Asp
 50 55 60

aga aga aac tgt ggc tac ccg ggc atc agc ccc gag gaa tgc gcc tct 240
 Arg Arg Asn Cys Gly Tyr Pro Gly Ile Ser Pro Glu Glu Cys Ala Ser
 65 70 75 80

cgg aag tgc tgc ttc tcc aac ttc atc ttt gaa gtg ccc tgg tgc ttc 288
 Arg Lys Cys Cys Phe Ser Asn Phe Ile Phe Glu Val Pro Trp Cys Phe
 85 90 95

ttc ccg aac tct gtg gaa gac tgc cat tac 318
 Phe Pro Asn Ser Val Glu Asp Cys His Tyr
 100 105

<210> 19
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 19
 Glu Lys Pro Ser Pro Cys Gln Cys Ser Arg Leu Ser Pro His Asn Arg
 1 5 10 15
 Thr Asn Cys Gly Phe Pro Gly Ile Thr Ser Asp Gln Cys Phe Asp Asn
 20 25 30
 Gly Cys Cys Phe Asp Ser Ser Val Thr Gly Val Pro Trp Cys Phe His
 35 40 45
 Pro Leu Pro Lys Gln Glu Ser Asp Gln Cys Val Met Glu Val Ser Asp
 50 55 60
 Arg Arg Asn Cys Gly Tyr Pro Gly Ile Ser Pro Glu Glu Cys Ala Ser
 65 70 75 80
 Arg Lys Cys Cys Phe Ser Asn Phe Ile Phe Glu Val Pro Trp Cys Phe
 85 90 95
 Phe Pro Asn Ser Val Glu Asp Cys His Tyr
 100 105